CLAIM AMENDMENTS

Please replace the claims with the following:

- 1. (Currently amended) A system for making a hole in an object, the system comprising jet means for generating an abrasive jet comprising a mixture containing a fluid and a quantity of abrasive particles and for blasting the abrasive jet with an erosive power into impingement with the object in an impingement area, thereby eroding the object in the impingement area, the system further comprising scanning means for moving the impingement area along a selected trajectory in the hole, and modulation means for modulating the erosive power of the abrasive jet while the impingement area is being moved along the selected trajectory, wherein the modulation means is arranged to modulate the quantity of abrasive particles in the mixture and wherein the modulation means comprises modulation control means arranged to control the modulation means such that the erosive power of the abrasive jet is modulated in relation with the position of the impingement area on the selected trajectory.
- 2. (Original) The system of claim 1, wherein the scanning means comprises rotary means for rotating the abrasive jet about a rotary axis, whereby the impingement area is positioned off-axis with respect to the rotary axis.
- 3. (Canceled)
- 4. (Previously presented) The system of claim 1, comprising a positional sensor for providing a signal indicative of the position of the impingement area on the selected trajectory.
- 5. (Previously presented) The system of claim 1, comprising a navigational sensor for providing a signal indicative of a direction under which the making of the hole in the object progresses.

- 6. (Previously presented) The system of claim 1, wherein the modulation means comprise means for modulating the power vested in kinetic energy of the abrasive particles.
- 7. (Previously presented) The system of claim 1, wherein the modulation means comprises velocity control means arranged to modulate the velocity of the abrasive particles in the abrasive jet.
- 8. (Original) The system of claim 7, wherein the jet means comprises an acceleration nozzle across which a pressure drop is maintainable, whereby the velocity control means comprises pressure control means arranged to modulate the pressure drop.
- 9. (Original) The system of claim 1, comprising a mixing chamber for mixing the fluid with the abrasive particles, and further comprising abrasive particle supply means for supplying the abrasive particles to the mixing chamber, whereby the modulation means is arranged to modulate the rate at which the abrasive particle supply means supplies the abrasive particles to the mixing chamber thereby modulating the quantity of abrasive particles in the mixture.
- 10. (Original) The system of claim 9, wherein the abrasive particle supply means comprises recirculation means arranged to recirculate at least a part of the abrasive particles from a return stream of the mixture downstream impingement with the object into the mixing chamber, whereby the modulation means is arranged to modulate at least the recirculation rate.
- 11. (Previously presented) The system of claim 9, wherein the abrasive particle supply means comprises conveyor means arranged such that operation of the conveyor means induces transport of the abrasive particles, whereby the modulation means is arranged to modulate at least the rate of transport induced by the conveyor means.

- 12. (Original) The system of claim 11, wherein the conveyor means is movable, whereby movement of the conveyor means induces the transport of the abrasive particles.
- 13. (Previously presented) The system of claim 11, wherein the conveyor means are coupled to a controllable down hole power system for operating the conveyor means and driving the conveyor means into movement.
- 14. (Original) The system of claim 13, wherein the controllable down hole power system comprises an electric power generator drivable by a fluid flow, an electric motor mechanically coupled to the conveyor means for driving the conveyor means into movement, whereby the electric motor is electrically coupled to the electric power generator via an electronic control system.

15-18. (Canceled)

19. (Currently amended) A system for making a hole in an object, the system comprising jet means for generating an abrasive jet comprising a mixture containing a fluid and a quantity of abrasive particles and for blasting the abrasive jet with an erosive power into impingement with the object in an impingement area, thereby eroding the object in the impingement area, the system further comprising scanning means for moving the impingement area along a selected trajectory in the hole, and modulation means for modulating the erosive power of the abrasive jet while the impingement area is being moved along the selected trajectory, wherein the modulation means comprise means for modulating the power vested in kinetic energy of the abrasive particles; wherein the modulation means comprises velocity control means arranged to modulate the velocity of the abrasive particles in the abrasive jet; and The system of claim 18, wherein the jet means comprises an acceleration nozzle across which a pressure drop is maintainable, whereby the velocity control means comprises pressure control means arranged to modulate the pressure drop.

20. (Canceled)